

# City of Columbia



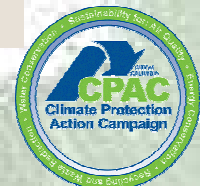
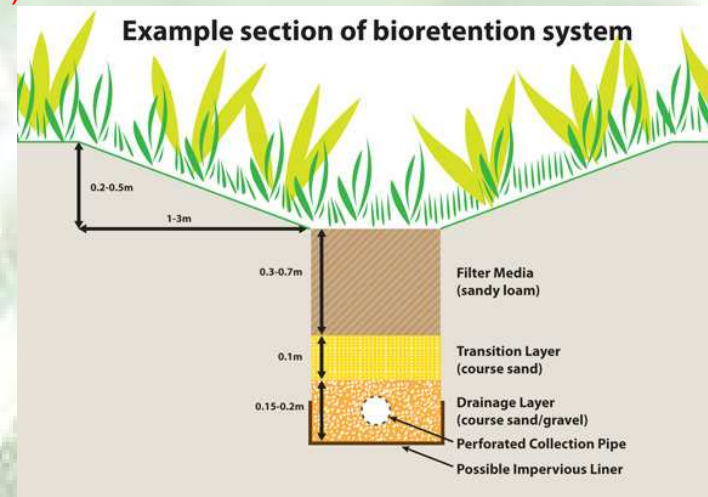
Storm Water Discussion  
December 1, 2010

# City of Columbia

## Storm Water Project Overview

- Cedar Field Lane (SD8295)
- **Mitigation Permitting (SD8299)**
- North Main Street (SD8260)
- Randall Avenue from Colleton St.  
– to Oakland (SD80592B)
- Highland Park, Phase 2 (SD821502)
- William and Mary Court (SD8307)
- **St. Mark's Wood (SD8225)**
- Windermere Avenue (SD8249)
- Fuller St. to Hyatt Avenue (SD8266)
- **Eight Mile Branch (SD8013)**
- **Heathwood Dr. to Devereau Road via Albion Road (SD8037)**
- **Adger Road, Devereaux Road, Albion Road (SD8046)**
- Rocky Branch (SD8048)
- Clarendon Street to near North Main Street (SD8112)
- Oakland Avenue (SD8127)
- 724 Saluda Avenue (SD8163)
- **Saturn Lane & Tuxedo Road (SD8186)**
- Colony Forest Apartments (SD8189)
- **Storm Drain Improvements - Citywide (SD8285)**
- 7008 Leitner Road (SD8293)
- **St. Mark's Wood, Phase 2 (SD822502)**

Total for all Projects: \$5.8M



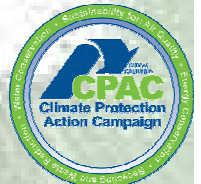
# City of Columbia

## Road and Sidewalk Project Listing

- Gills Creek Parkway Rebuild and Sidewalk Installation
- Bower Parkway Road Rebuild
- Shady Lane Sidewalk Installation
- Veterans Road Sidewalk Installation
- Storm Drain Maintenance Citywide
- Sidewalk Maintenance Citywide
- Roadway Maintenance Citywide
- MLK Park Retention Project
- Penn Branch Wall Repairs (Brennan to Trenholm)
- Cleaning Tributary of Penn Branch (Coordinating with Richland Mall)
- Harrison and Boyer (Minor Maintenance)
- Windsor Hills to Pinebelt (Channel Cleaning)



Tree Pod Biofiltration Systems





# Storm Water Permitting Summary

**Plans Approved - 50**

**Total Site Inspections - 55**

**Enforcement Cases - 1**

**Notice of Violation - 2**

**Stop Work Order - 2**

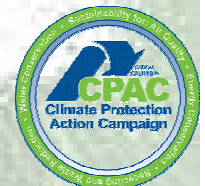
**Sites Complete / Stabilized - 3**



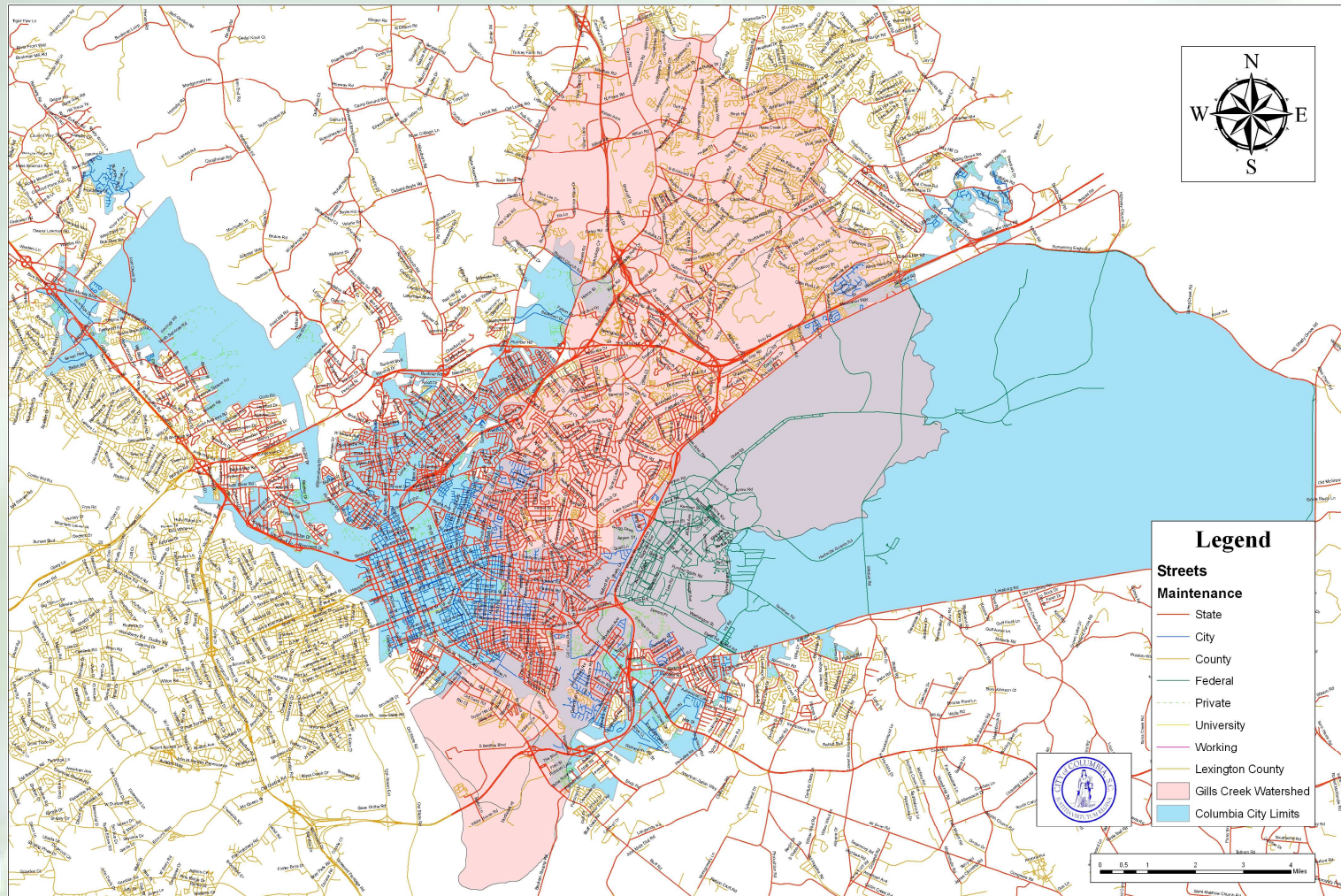
Riprap can be used to stabilize drainageways and outlets to prevent erosion



Natural vegetation is protected from heavy equipment with safety fencing





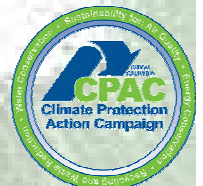


## Road Ownership

~70% of all Roads in City Limits are SCDOT Roadways

~30% of all roads in City Limits are City Roadways

~Storm Drain Ownership typically follows Road Ownership (but not always)



# Types of BMPs



**Porous / Permeable Pavement**



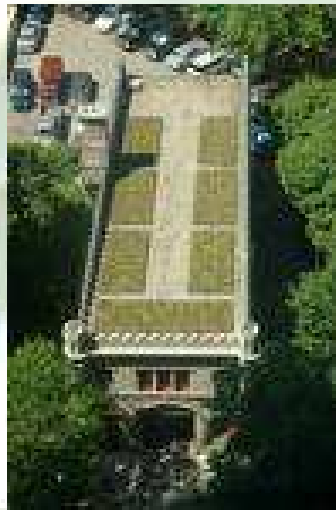
**Rain Barrels**



**Bioretention / Rain Gardens**



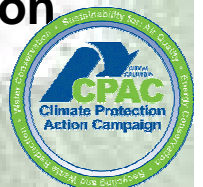
**Detention / Retention Ponds**



**Vegetated Roof Covers**



**Downspout Disconnection**





# Best Management Practices by the City

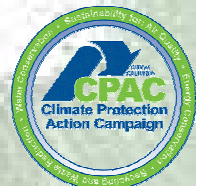
**Silt Savers**



**Gator Guards**



**Concrete Washout Filter**





# Best Management Practices by the City



**Tree City USA, Treasured  
Trees, Forever Forest  
Program**



**Hydro-seeding**



**Composting / Natural  
Mulch Use**



**Ooze Tube Use**



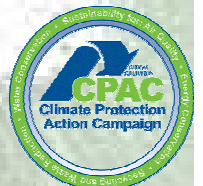
**Time Released  
Fertilizers Use**



**Disease Resistant & Drought  
Tolerant Plant Use**



**Drip Irrigation**





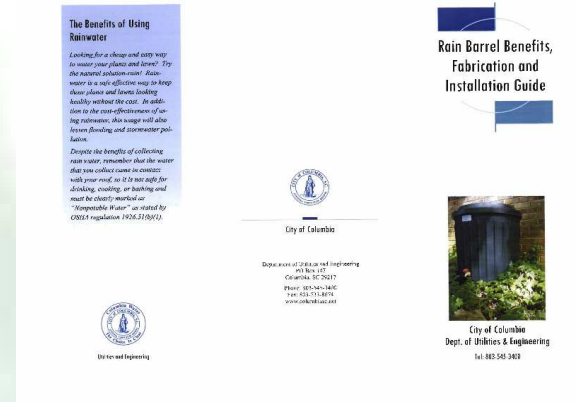
# Best Management Practices by the City



**Using LID Techniques In  
Our Own Designs**



**Providing Hands- On  
Training on How To  
Make a Difference**



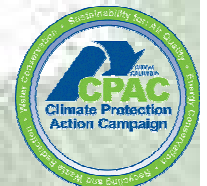
**Creating “How To” Guides &  
Presenting Workshops on Building  
Your Own Rain Barrels & Rain  
Gardens**



**Composting / Natural Mulch Use**



**Riverfront Park Rain Barrels**



# Best Management Practices by the City



**Street Sweeping**



**Summer  
Celebration of Water**



**Storm Drain Marking**



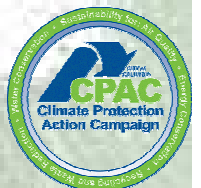
**Program Designed to  
Eliminate FOG from the  
Sanitary Sewer System**



**Trash Collection (Yard Debris)**



**Cooking Oil Recycling  
Program**





# Best Management Practices by the City

## City Climate Protection Action Campaign

**Green is Good for Business  
Conference**

**Green Building  
Incentive Program**

**Green Congregations (At  
least two have addressed  
parking lot runoff)**

**Green Business Program**

**Public Input / Education  
Viaduct for Storm Water  
Permit**

**Help Sheets to Include  
one for Storm Water**



**City Climate Protect Plan  
(Internal)**





-Visit the CPAC website:

<http://www.coccpac.com>

### Contacts

- **Public Works Department, 2910 Colonial Drive, (803)545-3780**
- **Utilities and Engineering Department, 1136 Washington St. 7<sup>th</sup> floor, (803)545-3400**

Report a Storm Water Concern: [stormwater@columbiasc.net](mailto:stormwater@columbiasc.net)  
or call 803-545-3790

